

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Zhang et al.

Appl. No. 09/849,537

Filed: May 7, 2001

For:

Die-Up Ball Grid Array Package

With a Heat Spreader and Method for Making the Same

Confirmation No. 7984

Art Unit: 2822

Examiner: Lewis, Monica

Atty. Docket: 1875.0370000

Fourth Supplemental Information Disclosure Statement

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application

does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

- □ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.
- □ 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed within three months of the date of filing of a national application other than a continued prosecution application (CPA), OR within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, OR before the mailing date of a first Office Action on the merits OR before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.
- Siling under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.
 - □ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

- □ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- □ 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Attached is our PTO-2038 Credit Card Payment Form in the amount of \$180.00 in payment of the fee under 37 C.F.R. § 1.17(p); in addition:
 - □ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
 - □ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- □ 5. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the

foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.

- □ 6. A concise explanation of the relevance of the non-English language document(s) appears below:
- □ 7. Copies of the documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. _______, filed ______, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Jeffrey S. Weaver Attorney for Applicants

-) My D. L

Registration No. 45,608

Date: 8-12-03

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

SKGF_DC1:166133.1

and a single

Page 1 of 2 APPLICATION NO. ATTY, DOCKET NO. 1875.0370000 09/849,537 FORM PTO-1449 **APPLICANT** Zhang et al. RMATION DISCLOSURE STATEMENT **GROUP** FILING DATE May 7, 2001 U.S. PATENT DOCUMENTS 2822 EXAMINER. NAME INITIAL DOCUMENT DATE CLASS SUB-CLASS FILING DATE NUMBER AA1 10/284,312 3/27/2003 10/31/2002 Zhao et al. AB1 10/284,340 Zhao et al. 10/31/2002 7/25/2002 AC1 12/12/2002 10/201,891 Zhao et al. 7/23/2002 AD1 10/200,336 12/12/2002 Khan et al. 7/18/2002 AE1 10/197,438 12/12/2002 Zhao et al. 7/24/2002 AF1 10/201,309 12/19/2002 Khan et al. AG1 10/201,893 12/12/2002 Zhao et al. 7/25/2002 7/23/2002 AH1 10/200,255 12/19/2002 Zhao et al. 3/21/2002 AI1 10/101,751 Zhao et al. 9/25/2002 AJ1 10/253,600 Zhong et al. AK1 Khan et al. 10/31/2002 10/284,371 FOREIGN PATENT DOCUMENTS **EXAMINER** DATE COUNTRY **CLASS** SUB-CLASS TRANSLATION INITIAL DOCUMENT NUMBER Yes AL1 No Yes AM1 No Yes AN1 No Yes AO1 No Yes No AP1 OTHER (Including Author, Title, Date, Pertinent Pages, etc.) AR 1 AS 1 ΑT 1 DATE CONSIDERED **EXAMINER EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

		Page 2 of 2
ATTY. DOCKET NO. 1875.0370000	APPLICATION NO. 09/849,537	
APPLICANT Zhang et al.		
FILING DATE	GROUP	

SKGF Rev. 1/95					May 7, 2001	2822				
U.S. PATENT DOCUMENTS										
EXAMINER TINITIAL		DOCUM NUMBE	MENT ER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE		
•	AA2	10/284,	349	``	Khan et al.			10/31/2002		
	AB2	10/284,	166		Zhao et al.			10/31/2002		
	AC2	10/284,			Zhao et al.			10/31/2002		
	AD2									
	AE2									
	AF2			·····						
	AG2									
	AH2									
	Al2									
	AJ2									
	AK2									
	1			FOREIG	ON PATENT DOCUMENTS	•	1			
EXAMINER INITIAL		DOCU	JMENT BER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION		
,	AL2							Yes No		
	AM2							Yes No		
	AN2							Yes No		
	AO2							Yes No		
	AP2						·	Yes No		
	,		c	THER (Including Au	uthor, Title, Date, Pertinent Pages, etc.)					
	AR	<u>2</u>								
	AS	<u>2</u>			×					
	AT	<u>2</u>		\						
EXAMINER		•				DATE CON	SIDERED			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.